



US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020
5/31/2018

Electronic Tracking Number

For FAA Use Only

INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9 1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N7230Y	Serial No. 30-254	
	Make Piper	Model PA-30	Series
2. Owner	Name (As shown on registration certificate) Vraspir		Address (As shown on registration certificate) 26050 Birch Bluff Rd.
			City Excelsior State MN
			Zip 55331-8315 Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Name	Tom Beachem	<input checked="" type="checkbox"/> U. S. Certificated Mechanic	Manufacturer		
Address	17 Fairway Dr	<input type="checkbox"/> Foreign Certificated Mechanic			
City	Monticello State MN	<input type="checkbox"/> Certificated Repair Station			
Zip	55362 Country USA	<input type="checkbox"/> Certificated Maintenance Organization	2658219		

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 6/22/20
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7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station <input checked="" type="checkbox"/>	Inspection Authorization	Other (Specify)

Certificate or Designation No. 2661552	Signature/Date of Authorized Individual 6/22/20
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NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

N7230Y

6/22/2020

8. Description of Work Accomplished

Nationality and Registration Mark

Date

Replaced existing rear white position light with uAvionix tailBeacon assembly, Part # UAV-1002183-001 S/N 2003032 in accordance with tailBeacon STC Installation Guide, Document # UAV-1002514-001. Used existing position light circuit and confirmed appropriate per AC43.13-1B Chapter 11, Section 5&6.

Existing rear position light wiring was terminated to the tailBeacon position light wire (red wire) using environmental splice (Part # UAV-1001487-001 or equivalent). tailBeacon ground wire (black wire) was terminated to airframe structure or ground wire as appropriate.

1. Placard installed next to position light switch.
2. tailBeacon Instructions for Continued Airworthiness uAvionix Document # UAV-1002513-001
3. tailBeacon Flight Manual Supplement: uAvionix Document # UAV-1002512-001
4. Airworthiness Limitations: No additional Airworthiness Limitations.
5. Change to Weight and Balance is negligible. Equipment list was revised
6. If installed on a moving control surface, specific attention must be paid to proper balance. Refer to the Manufacturer's Service Manual to determine if balancing is required and for balancing instructions.
7. The above modification was found not to interfere with other installed systems and/or modifications and does not exceed 80% of generator output. No adverse interference to radios and navigation systems from RFI was found while operating the tailBeacon during the configuration process.
8. The installed ADS-B OUT system was shown to meet the equipment performance requirements of 14 CFR section 91.227.

----- END -----



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INSTRUCTIONS: Print or type all entries. See Title 14 CFR §43.9, Part 43 Appendix B, and AC 43.9 1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. §44701). Failure to report can result in a civil penalty for each such violation. (49 U.S.C. §46301(a))

1. Aircraft	Nationality and Registration Mark N7230Y	Serial No. 30-254
	Make Piper	Model PA-30
2. Owner	Name (As shown on registration certificate) Vraspir	
	Address (As shown on registration certificate) Address 26050 Birch Bluff Rd.	
	City Excelsior	State MN
	Zip 55331-8315	Country USA

3. For FAA Use Only

4. Type		5. Unit Identification			
Repair	Alteration	Unit	Make	Model	Serial No.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AIRFRAME	_____	(As described in Item 1 above)	_____
<input type="checkbox"/>	<input type="checkbox"/>	POWERPLANT			
<input type="checkbox"/>	<input type="checkbox"/>	PROPELLER			
<input type="checkbox"/>	<input type="checkbox"/>	APPLIANCE	Type		
			Manufacturer		

6. Conformity Statement

A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
Name	Tom Beachem	<input checked="" type="checkbox"/>	U. S. Certificated Mechanic		
Address	17 Fairway Dr	<input type="checkbox"/>	Foreign Certificated Mechanic		
City	Monticello State MN	<input type="checkbox"/>	Certificated Repair Station		
Zip	55362 Country USA	<input type="checkbox"/>	Certificated Maintenance Organization	2658219	

D. I certify that the repair and/or alteration made to the unit(s) identified in item 5 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Extended range fuel per 14 CFR Part 43 App. B <input type="checkbox"/>	Signature/Date of Authorized Individual 6/22/20
--	--

7. Approval for Return to Service

Pursuant to the authority given persons specified below, the unit identified in item 5 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is Approved Rejected

BY	FAA Fit. Standards Inspector	Manufacturer	Maintenance Organization	Persons Approved by Canadian Department of Transport
	FAA Designee	Repair Station	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)

Certificate or Designation No. 2661552	Signature/Date of Authorized Individual 6/22/20
---	--

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

N7230Y

6/22/2020

Nationality and Registration Mark

Date

Removed KLN 88 Loran and installed KLN 90B GPS. updated weight and balance and equipment list.

----- END -----



US Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION.
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020 *JW*
For FAA Use Only
Office Identification
WPO7

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make <i>PIPER</i>	Model <i>PA-30</i>
	Serial No. <i>30254</i>	Nationality and Registration Mark <i>U.S.A N7230Y</i>
2. Owner	Name (As shown on registration certificate) <i>LARRY C. / CHERYLE E. HENRY</i>	Address (As shown on registration certificate) <i>5738 N. Scottsdale Rd. Scottsdale, AZ. 85253</i>

3. For FAA Use Only

4. Unit Identification

Unit	Make	Model	Serial No.	5. Type	
				Repair	Alteration
AIRFRAME	<i>..... (As described in Item 1 above)</i>				<input checked="" type="checkbox"/>
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address <i>LARRY C. HENRY 5738 N. Scottsdale Rd. Scottsdale, AZ. 85253</i>	B. Kind of Agency <input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer	C. Certificate No. <i>346320600</i>
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

Date <i>July 8, 1999</i>	Signature of Authorized Individual <i>Larry C. Henry</i>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	

Date of Approval or Rejection <i>15 JULY 99</i>	Certificate or Designation No. <i>543466542</i>	Signature of Authorized Individual <i>Allen A. Smith</i>	<i>543466542-IA</i>
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N7230Y

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

PIPER PA-30 SN. 30-254 N7230Y
1) Installed Gulf Coast Exhaust Stack Extensions IAW STC
SA 264850 instructions depicted on Drawing 8990 dated
Sept. 11, 1989. Weight & Ballooned Amended.

END

Additional Sheets Are Attached

August, 1999

Federal Aeronautical Administration
Certification Office
Atlanta, Ga.

Gentlemen:

Re: STC Approval of
Airplane Stack Extensions

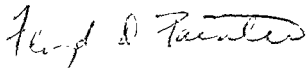
Please refer to our Gulf Coast Stacks STC SA2648SO which approves our revision of our installation drawing. Copy enclosed.

We need your approval of Larry Henry's stack extensions for his PA-30-254, N7230Y. Also, certification of installation, STC.

Please refer to John Tigue of the Atlanta Aircraft Certification Office and his approval of the STC, since 1989.

Thank you for your help.

Sincerely,



Floyd D. Painter
Owner
Gulf Coast Stacks



U.S. Department of Transportation
Federal Aviation Administration

MAJOR REPAIR AND ALTERATION:
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
OMB No. 2120-0020

For FAA Use Only

Office Identification

WPT PR

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).

1. Aircraft	Make <i>PIPER</i>	Model <i>PA-30</i>
	Serial No. <i>30-254</i>	Nationality and Registration Mark <i>U.S.A. N 7230Y</i>
2. Owner	Name (As shown on registration certificate) <i>LARRY C./CHERYL HENRY</i>	Address (As shown on registration certificate) <i>5738 N. Scottsdale Rd. SCOTTSDALE, AZ. 85253</i>

3. For FAA Use Only

4. Unit Identification				5. Type	
Unit	Make	Model	Serial No.	Repair	Alteration
AIRFRAME	<i>..... (As described in Item 1 above)</i>				<i>X</i>
POWERPLANT					
PROPELLER					
APPLIANCE	Type				
	Manufacturer				

6. Conformity Statement

A. Agency's Name and Address <i>LARRY C. HENRY 5738 N. Scottsdale Rd. Scottsdale, Az. 85253</i>	B. Kind of Agency	C. Certificate No. <i>346320600</i>
	<input checked="" type="checkbox"/> U.S. Certificated Mechanic	
	<input type="checkbox"/> Foreign Certificated Mechanic	
	<input type="checkbox"/> Certificated Repair Station	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.		

Date <i>06-24-96</i>	Signature of Authorized Individual <i>Larry C. Henry</i>
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7. Approval for Return To Service

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)
	FAA Designee	Repair Station	Person Approved by Transport Canada Airworthiness Group	
Date of Approval or Rejection <i>06-24-96</i>	Certificate or Designation No. <i>543466542</i>	Signature of Authorized Individual <i>Allen A. Struthers 543466542 IA</i>		

N7230Y

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

PIPER PA-30 N7230Y SN. 30-254


Removed Foster 500 LORAN FROM RADIO STACK ABOVE KY 155'S. Installed BENDIX/KING KLN 88 LORAN-C RNAV IN SAME LOCATION. USED EXISTING ANTENNA CABLE.

ALL WORK DONE IAW APPLICABLE FAR'S - MANUFACTURER'S INSTALLATION MANUAL SN. 006-00690-0003; REVISION 3, Dec. 1991. AND 43.13-12 CHAPTER II, SECTION 2, PARAGRAPH 429 (B) (D) AND SECTION 3 PARAGRAPH 445. 3 AMP CIRCUIT BREAKER INSTALLED ON BOTTOM RIGHT SIDE OF INSTRUMENT PANEL IAW 43.13-1A, CHAPTER 2, PARAGRAPH 21 (C), 22, AND 23 (b). PLACARDED "LORAN FOR VFR ONLY". EQUIPMENT LIST AND WEIGHT AND BALANCE AMENDED.

END

Additional Sheets Are Attached

JAE

 US Department of Transportation Federal Aviation Administration		MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)		Form Approved OMB No. 2120-0020 For FAA Use Only	
				Office Identification <i>UP-FSDO-07</i>	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form. This report is required by law (49 U.S.C. 1421). Failure to report can result in a civil penalty not to exceed \$1,000 for each such violation (Section 901 Federal Aviation Act of 1958).					
1. Aircraft	Make	<i>PIPER</i>		Model	<i>PA-30</i>
	Serial No.	<i>30254</i>		Nationality and Registration Mark	<i>USA N7230Y</i>
2. Owner	Name (As shown on registration certificate)			Address (As shown on registration certificate)	
	<i>LARRY C./CHERYL HENRY</i>			<i>5738N SCOTTSDALE RD. SCOTTSDALE, AZ 85253</i>	
3. For FAA Use Only					
4. Unit Identification					
Unit		Make	Model	Serial No.	5. Type
AIRFRAME		<i>(As described in Item 1 above)</i>			Repair
POWERPLANT					Alteration
PROPELLER					X
APPLIANCE		Type			
		Manufacturer			
6. Conformity Statement					
A. Agency's Name and Address		B. Kind of Agency		C. Certificate No.	
<i>ALLEN A. STRUTHERS 3209 W. CAMPO BELLO DR. PHOENIX, AZ 85023</i>		<input checked="" type="checkbox"/> U.S. Certificated Mechanic <input type="checkbox"/> Foreign Certificated Mechanic <input type="checkbox"/> Certificated Repair Station <input type="checkbox"/> Manufacturer		<i>543466542</i>	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
Date		Signature of Authorized Individual			
<i>MARCH 28, 1994</i>		<i>Allen A. Struthers</i>			
7. Approval for Return To Service					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA Fit. Standards Inspector	Manufacturer	<input checked="" type="checkbox"/> Inspection Authorization	Other (Specify)	
	FAA Designee	Repair Station	Person Approved by Transport-Canada Airworthiness Group		
Date of Approval or Rejection		Certificate or Designation No.	Signature of Authorized Individual		
<i>MARCH 28, 1994</i>		<i>543466542</i>	<i>Allen A. Struthers</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. Description of Work Accomplished

(If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

PIPER PA30 SN 30-254 N7230Y

*1) INSTALLED LOW PROFILE 15-600-6-6 PLY NOSE WHEEL TIRE 1AW
STC SA1806 SO INSTRUCTIONS. SAME WHEEL HUB CLEVELAND
PRODUCTS NO. 38501. WEIGHT AND BALANCE NOT AFFECTED.*

Allen R. Smutter

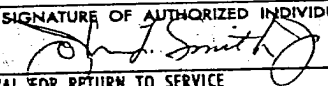
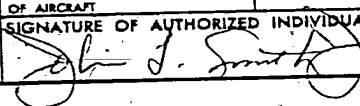
543466542 IA.

MARCH 28, 1994

END

Additional Sheets Are Attached

FAA

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION 107-07	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	PIPER	MODEL	PA-30	
	SERIAL NO.	30-254	NATIONALITY AND REGISTRATION MARK	N7230Y	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Henry, Larry C.		5738 N. Scottsdale Rd Scottsdale, AZ 85253		
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					5. TYPE
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
Westwind Aviation 732 W. Deer Valley Rd Phoenix, AZ 85027			U.S. CERTIFICATED MECHANIC		LIMITED AIRFRAME WIWR604K
			FOREIGN CERTIFICATED MECHANIC		
			X CERTIFICATED REPAIR STATION		
			MANUFACTURER		
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE			SIGNATURE OF AUTHORIZED INDIVIDUAL		
3-3-92					
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED.					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	X REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.		SIGNATURE OF AUTHORIZED INDIVIDUAL		
3-3-92	WIWR604K				

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

7 Removed Glove Box, Moved KR 87 ADF to Glove Box cut-out. Lengthened wires to KR 87 Installed cover plate over opening under KR 87. Installed Foster LRN 500 loran in stack above KX 155s, below audio panel. Placcarded Panel "Loran for VFR use only". All work done IAW all applicable FARs, manufacturer's instructions, P/N 009A0631A and AC 43;13 1a and 2a.

Weight and balance ammended and equipment list ammended.
Returned Aircraft to service

-----END-----

ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)			
FOR FAA USE ONLY			
OFFICE IDENTIFICATION NMFS 0003 RGT			
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.			
1. AIRCRAFT	MAKE PIPER	MODEL PA30	
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK N7230Y	
2. OWNER	NAME (As shown on registration certificate) HENRY, LARRY C.		ADDRESS (As shown on registration certificate) 5738 N. SCOTTSDALE RD SCOTTSDALE, AZ 85253
	3. FOR FAA USE ONLY		
4. UNIT IDENTIFICATION			
UNIT	MAKE	MODEL	5. TYPE
AIRFRAME (As described in item 1 above)		REPAIR ALTERATION X
POWERPLANT			
PROPELLER			
APPLIANCE	TYPE		
	MANUFACTURER		
6. CONFORMITY STATEMENT			
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY	
KENNETH R PEARCE 2505 LINDA LANE COLORADO SPRINGS, CO 80909		<input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	
		C. CERTIFICATE NO. A&P 2230949	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			
DATE 12-22-91	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Kenneth R. Pearce</i> KENNETH R. PEARCE		
7. APPROVAL FOR RETURN TO SERVICE			
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED			
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT
	FAA DESIGNEE	REPAIR STATION	
DATE OF APPROVAL OR REJECTION 12-26-91	CERTIFICATE OR DESIGNATION NO. 2230949	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Kenneth R. Pearce</i>	

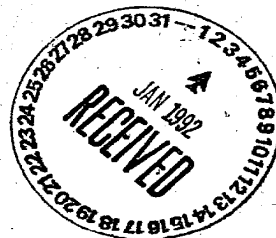
NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

N7230Y.12-22-91.INSPECTED AND APPROVED THE INSTALLATION OF A WX TEN STORMSCOPE.THE INSTALLATION IS IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND MEETS THE OVERALL CRITERIA SET FORTH IN AC 43.13-2A CHAPTER 2..THE WX10 DISPLAY HEAD,S/N 0081080880,IS MOUNTED IN A PRE-EXISTANT INSTRUMENT HOLE IN THE LOWER LEFT CORNER OF THE INSTRUMENT PANEL. THE WX10 PROCESSOR,S/N OP81070263, IS MOUNTED ON A PRE-EXISTANT RADIO RACK AT STATION 164.THE WX10 ANTENNA S/N 8004342,IS MOUNTED ON THE LOWER FUSELAGE SKIN AT STATION 207.INTERCONNECTING WIRING IS PROPERLY BUNDLED AND PROPERLY ROUTED AND SECURED.THE POWER SOURCE IS THE PRIMARY DC BUS AND PROPER FUSING IS INCLUDED.THE EQUIPMENT LIST AND WEIGHT AND BALANCE HAVE BEEN AMENDED.

//////////////////////////////////////END//////////////////////////////////////



ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
Budget Bureau No. 04-R060.1
FOR FAA USE ONLY
OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE PIPER	MODEL PA-30
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION-MARK N7230Y
2. OWNER	NAME (As shown on registration certificate) Scott McNary	ADDRESS (As shown on registration certificate) 312 W. Clay Dayton, Washington 99328

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	(As described in item 1 above)				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

<p style="text-align: center;">A. AGENCY'S NAME AND ADDRESS</p> <p>MAST COMM 7395 South Peoria Street Centennial Airport Englewood, Colorado 80112</p>	<p style="text-align: center;">B. KIND OF AGENCY</p> <p><input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER</p>	<p style="text-align: center;">C. CERTIFICATE NO.</p> <p>CRS-D03-40 Radio Class 1,2 Specialized Service</p>
--	--	---

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE August 2, 1989	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Debbie L. Paschky</i> Debbie L. Paschky
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION August 2, 1989	CERTIFICATE OR DESIGNATION NO. CRS-D03-40	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Debbie L. Paschky</i> Debbie L. Paschky		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

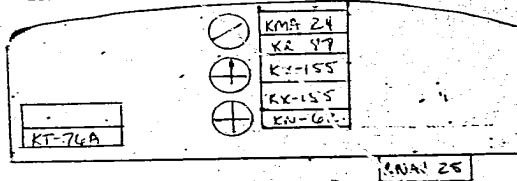
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Aircraft is Piper PA-30 sn 30-254, N7230Y. Tach times are R-2560.88, L-2569.98 hours.

This 337, dated August 2, 1989, is issued for the removal of one Wilcox 1014A Transponder and the installation of one KING KT-76A Transponder and one SRD LABS LNAV-25 Loran-C.

The above equipment has been installed and ground checked in accordance with the Appliance Manufactures Installation/Operation procedures and instructions: KING KT-76A Installation Manual PN: 006-0143-04 and SRD LNAV-25 Installation Manual PN: 1500-34 and AC 43.13-1A & 2A, AC 20-121 Appendix 1 Section 3. Wire used was MIL-W-22759 22 gage. Power was supplied through circuit breakers on aircrafts Avionics Electrical Buss. Aircrafts Equipment List has been updated and a new Weight And Balance prepared and entered here and in aircrafts Airframe Log Book. FAR 91.172 complied with as of this date.

The following sketch outlines the location of equipment installed:



NEW WEIGHT & BALANCE

	EMPTY WEIGHT	ARM	EMPTY WT CG	MOMENT	USEFUL LOAD
Old Weight & Balance	2309.60	-	82.53	192927.43	1290.40
REMOVED: 1014A	5.60	35.4	-	198.00	-
INSTALLED: KT-76A	3.10	64.5	-	199.95	-
INSTALLED: LNAV-25	3.00	64.0	-	192.00	-
NEW WEIGHT & BALANCE					
AUGUST 2, 1989	2310.10	-	83.59	193121.38	



ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
Budget Bureau No. 04-R060.1
FOR FAA USE ONLY
OFFICE IDENTIFICATION

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Piper	MODEL PA-30
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK N7230Y
2. OWNER	NAME (As shown on registration certificate) McNary Scott T	ADDRESS (As shown on registration certificate) 312 W. Clay Dayton Wa. 99328

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION

UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	As described in item 1 above				XX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS Dan Bauer 7805 S. Peoria Englewood Co. 80112	B. KIND OF AGENCY		C. CERTIFICATE NO. 543641022
	<input checked="" type="checkbox"/>	U.S. CERTIFICATED MECHANIC	
	<input type="checkbox"/>	FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/>	CERTIFICATED REPAIR STATION	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.			

DATE 7-20-89	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Dan Bauer</i>
-----------------	--

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	<input type="checkbox"/>	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 7-20-89	CERTIFICATE OR DESIGNATION NO. 543641022	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Dan Bauer</i>			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installation of Fiberglass wing tips I/A/W STC SA871WE and Metal Co-Aire Drawing No. 11050 and installed per Installation Drawing No. SD1022-----END-----



ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY OFFICE IDENTIFICATION	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE Piper	MODEL PA-30			
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK N7230Y			
2. OWNER	NAME (As shown on registration certificate) Scott McNary		ADDRESS (As shown on registration certificate) 312 W. Clay Dayton, Washington 99328		
	3. FOR FAA USE ONLY				
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
				REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
MAST COMM 7395 South Peoria Street Centennial Airport Englewood, Colorado 80112		U.S. CERTIFICATED MECHANIC		CRS-D03-40	
		FOREIGN CERTIFICATED MECHANIC		Radio Class 1,2	
		<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION		Specialized Service	
		MANUFACTURER			
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE March 22, 1989			SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Debbie L. Paschky</i> Debbie L. Paschky		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION 3-22-89		CERTIFICATE OR DESIGNATION NO. CRS-D03-40		SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Debbie L. Paschky</i> Debbie L. Paschky	

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

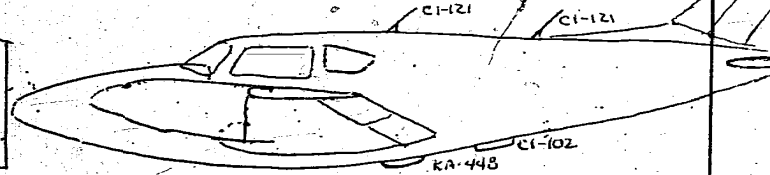
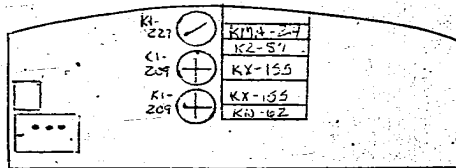
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Aircraft is Piper PA-30 sn 30-254, N7230Y. Tach times are R-2491.08, L-2499.75 hours

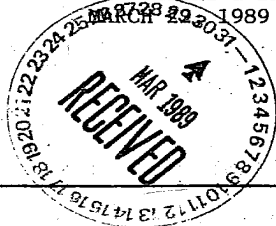
This 337, dated March 22, 1989, is issued for the removal of one Bendix T-12 ADF system, two Narco Mk-12 Navcoms, one SRD Loran-C system, one Piper Audio Panel and one Narco Marker Receiver. Installed one King KMA-24 Audio Panel with Marker Rec., one King KR-87 ADF system, two King KX-155 Navcoms with Glideslopes and KI-209 Indicators.

The above equipment has been installed and ground checked in accordance with the Appliance Manufactures Installation/Operation procedures and instructions: KING KMA-24 Installation Manual PN: 006-0180-01, KING KR-87 Installation Manual PN: 006-0184-01, KING KX-155 Installation Manual PN: 006-0179-05, and AC 43.13-1A & 2A. Wire used was Mil-W-22759. 16-22 gages. Power was connected through circuit breakers on aircrafts Avionics Electrical Buss. Aircrafts Equipment List has been updated and a new Weight & Balance prepared and entered here and in aircrafts Airframe Log Book.

The following sketch outlines the location of equipment installed:



NEW WEIGHT & BALANCE	EMPTY WEIGHT	ARM	EMPTY WT CG	MOMENT	USEFUL LOAD
Old Weight & Balance	2333.10	-	83.76	195418.25	1266.90
REMOVED: MK-12 system	12.10	103.8	-	1255.98	-
REMOVED: MK-12 system	12.10	103.8	-	1255.98	-
REMOVED: T-12B System	10.80	80.1	-	865.08	-
REMOVED: VOA-4 (2 Ea.)	3.25	64.0	-	208.00	-
REMOVED: MBT-12 Mkr.	2.25	99.9	-	224.78	-
REMOVED: SRD Loran	3.00	64.0	-	192.00	-
REMOVED: Audio Panel	1.00	66.0	-	66.00	-
INSTALLED: KMA-24	0.70	66.5	-	46.55	-
INSTALLED: KR-87	3.20	64.5	-	206.40	-
INSTALLED: KI-227	0.70	68.5	-	47.95	-
INSTALLED: KA-44B	2.00	142.0	-	284.00	-
INSTALLED: KX-155	5.70	64.5	-	367.65	-
INSTALLED: KI-209	1.20	66.0	-	79.20	-
INSTALLED: KX-155	5.70	64.5	-	367.65	-
INSTALLED: KI-209	1.20	66.0	-	79.20	-
INSTALLED: CI-102 Mkr. Ant.	0.60	164.0	-	98.40	-
NEW WEIGHT & BALANCE					
MAR 29 1989	2309.60	-	82.85	192927.43	1290.40



ADDITIONAL SHEETS ARE ATTACHED

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION				Form Approved Budget Bureau No. 04-R060.1	
MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				FOR FAA USE ONLY	
				OFFICE IDENTIFICATION NM - FSDO - 60	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.					
1. AIRCRAFT	MAKE	Piper		MODEL	PA-30
	SERIAL NO.	30-254		NATIONALITY AND REGISTRATION MARK	U.S.A. N72309
2. OWNER	NAME (As shown on registration certificate)			ADDRESS (As shown on registration certificate)	
	Robert O. Debolt			1345 Toedtle Drive Boulder, Colorado 80303	
3. FOR FAA USE ONLY					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS		B. KIND OF AGENCY		C. CERTIFICATE NO.	
Aeronics Hqr B4A Jeffco Airport Broomfield, Colorado 80020		U.S. CERTIFICATED MECHANIC		CRS #D03-12 Radio	
		FOREIGN CERTIFICATED MECHANIC		Class I & II. Class	
		<input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION		III & Instrument	
		MANUFACTURER		Limited.	
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE	SIGNATURE OF AUTHORIZED INDIVIDUAL				
December 2, 1987	<i>Gene Shriver</i>		Installation Inspector		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION		OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION	CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL			
12-2-87	D03-12	<i>Gene Shriver</i>			

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

B. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

AIRCRAFT MAKE *Piper* AIRCRAFT MODEL *PA-30*
AIRCRAFT SERIAL NO. *30-254* REGISTRATION *N7230V*

*Install Terra AT-3000 S/N 3062 Encoder TSO C-88, I/A/W AC43.13-2A, Chapter 2-22 figures 2.1, 2.2 and Terra Corp. Installation Manual and Drawing on Page 16.
Power is supplied by Wilcox Transponder 1014A and system was matched and certified to the aircraft altimeter and 1014A S/N 359 I/A/W FAR 91.172 and comply with FAR 43, appendix F.
Perform calibration and performance checks per FAR 91.36 and FAR 91.171.
Operational checks & calibration checks performed by Aeronics CRS #003-12. Radio Class I & II. Class III & Instrument limited.
Equipment list amended.*

-----THE END-----

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30-254
30-254
30-254

APPROVED FOR RELEASE BY THE
1978 JAN 27 10 00 AM
NATIONAL ARCHIVES
COLLEGE PARK, MARYLAND

WV-8200-00
100-1000000000
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ADDITIONAL SHEETS ARE ATTACHED

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

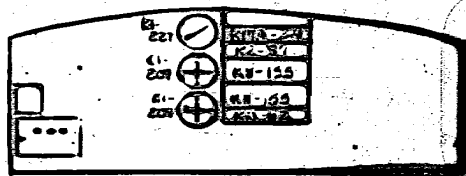
8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Aircraft is Piper PA-30 sn 30-254, N7230Y. Tach times are R-2491.08, L-2499.75 hours

This 337, dated March 22, 1989, is issued for the removal of one Bendix T-12 ADF system, two Narco MR-12 Navcoms, one SRD Lorain-C system, one Piper Audio Panel and one Narco Marker Receiver. Installed one King KMA-24 Audio Panel with Marker Rec., one King KR-87 ADF system, two King EI-155 Navcoms with Glideslopes and KI-209 Indicators.

The above equipment has been installed and ground checked in accordance with the Appliance Manufacturers Installation/Operation procedures and instructions: KING KMA-24 Installation Manual PN: 006-0180-01, KING KR-87 Installation Manual PN: 006-0184-01, KING EI-155 Installation Manual PN: 006-0179-05, and AC 43.13-1A & 2A. Wire used was HAA-4-22759 16-22 gages. Power was connected through circuit breakers on aircrafts Avionics Electrical Bus. Aircrafts Equipment List has been updated and a new Weight & Balance prepared and entered here and in aircrafts Airframe Log Book.

The following sketch outlines the location of equipment installed:



NEW WEIGHT & BALANCE

	WEIGHT	ARM	EX. WT. CG	MOMENT	USEFUL LOAD
Old Weight & Balance	2333.10	-	83.76	195418.25	1266.90
REMOVED: MR-12 system	12.10	802.0	-	1255.98	-
REMOVED: MR-12 system	12.10	802.0	-	1255.98	-
REMOVED: T-12 System	12.10	802.0	-	1255.98	-
REMOVED: VOA-4 (2 Ga.)	2.00	80.0	-	200.00	-
REMOVED: MBT-12 Str.	2.00	80.0	-	200.00	-
REMOVED: SRD Lorain	2.00	80.0	-	200.00	-
REMOVED: Audio Panel	1.00	80.0	-	100.00	-
INSTALLED: KMA-24	1.00	80.0	-	100.00	-
INSTALLED: KR-87	1.00	80.0	-	100.00	-
INSTALLED: EI-227	1.00	80.0	-	100.00	-
INSTALLED: EA-448	2.00	160.0	-	200.00	-
INSTALLED: EI-155	1.00	80.0	-	100.00	-
INSTALLED: EI-209	1.00	80.0	-	100.00	-
INSTALLED: EI-155	1.00	80.0	-	100.00	-
INSTALLED: EI-209	1.00	80.0	-	100.00	-
INSTALLED: CI-102 Str.	0.00	0.00	-	0.00	-
NEW WEIGHT & BALANCE	2321.00	-	82.65	192927.43	1290.40



16

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION MAJOR REPAIR AND ALTERATION (Airframe, Powerplant, Propeller, or Appliance)				Form Approved Budget Bureau No. 04-R060.1 FOR FAA USE ONLY	
INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.				OFFICE IDENTIFICATION: GADO-5 Cincinnati, Ohio	
1. AIRCRAFT	MAKE	Piper	MODEL	PA-30	
	SERIAL NO.	30-254	NATIONALITY AND REGISTRATION MARK	N-7230Y	
2. OWNER	NAME (As shown on registration certificate)		ADDRESS (As shown on registration certificate)		
	Roberts Enterprises, Inc.		2129 Sheffield Drive Bellbrook, Ohio 45305		
3. FOR FAA USE ONLY					
The data identified herein complies with applicable airworthiness requirements and is approved only for the above described aircraft subject to conformity inspection by a person authorized in FAR-43.71					
APPROVING INSPECTOR: <i>[Signature]</i> DATE: 9/16/83					
4. UNIT IDENTIFICATION					
UNIT	MAKE	MODEL	SERIAL NO.	5. TYPE	
AIRFRAME	***** (As described in item 1 above) *****			REPAIR	ALTERATION
POWERPLANT					X
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				
6. CONFORMITY STATEMENT					
A. AGENCY'S NAME AND ADDRESS			B. KIND OF AGENCY		C. CERTIFICATE NO.
Avionics, Inc. Hangar 3, Lunken Airport Cincinnati, Ohio 45226			<input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		CRS-1083
D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.					
DATE			SIGNATURE OF AUTHORIZED INDIVIDUAL		
September 16, 1983			<i>[Signature]</i>		
7. APPROVAL FOR RETURN TO SERVICE					
Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is <input checked="" type="checkbox"/> APPROVED <input type="checkbox"/> REJECTED					
BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)	
	FAA DESIGNEE	X REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT		
DATE OF APPROVAL OR REJECTION		CERTIFICATE OR DESIGNATION NO.	SIGNATURE OF AUTHORIZED INDIVIDUAL		
Sept. 16, 1983		CRS-1083	<i>[Signature]</i> Installation Inspector		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed SRD Labs LNAV-25 system. Fabricated bracket and mounted unit under co-pilot's instrument panel. Installed LV-209 antenna with built-in preamplifier on top of fuselage at station 100.

The loran is not connected to any existing avionic or instrument system. Aircraft is placarded above the loran receiver: "Loran for VFR Navigation only."

Weight & Balance


Empty Weight	2339.00
C. G.	83.71
Moment	195801.55
Useful Load	1261.00

Electrical load was investigated and found to be within tolerance.

All unit meet requirements of Chapter 1, AC43.13-2, Structural Data and Chapter 15, Section 397, AC43.13-1.

All wiring is of size and mt. spec. to meet radio mfg. and AC43.13-1, Chapter 11, Fig. 11.5 and Chapter 2, Par. 27, A, B, C, D, E and F of AC43.13-2.

ADDITIONAL SHEETS ARE ATTACHED

FEDERAL AVIATION AGENCY APPLICATION FOR AIRWORTHINESS CERTIFICATE		FORM APPROVED  BUDGET BUREAU NO. 04-R058.1
INSTRUCTIONS: Please print or type. Submit this form, original only, to an authorized Federal Aviation Agency Representative. Use attachments or extra sheets as necessary.		
PART I AIRCRAFT DESCRIPTION	1. AIRCRAFT IDENTIFICATION NO. N 7230Y	2. AIRCRAFT MAKE Piper
	4. AIRCRAFT SERIAL NUMBER 30-254	5. ENGINE MAKE Lycoming
	7. NUMBER OF ENGINES Two	8. PROPELLER MAKE Hartzell
		3. AIRCRAFT MODEL PA-30
		6. ENGINE MODEL IO-320-B1A
		9. PROPELLER MODEL HC-EZYL-2B
PART II CERTIFICATION REQUESTED	1. APPLICATION IS HEREBY MADE FOR: A. <input checked="" type="checkbox"/> ORIGINAL ISSUANCE OF CERTIFICATE (AIRCRAFT <input checked="" type="checkbox"/> NEW <input type="checkbox"/> USED <input type="checkbox"/> IMPORT) (CAR 1) B. <input type="checkbox"/> AMENDMENT OF CURRENT CERTIFICATE (CAR 1.62) C. <input type="checkbox"/> MULTIPLE CERTIFICATE (REF. CAR 1 AND 8) D. <input type="checkbox"/> OTHER _____ (Specify)	
	2. AIRWORTHINESS CLASSIFICATION (Check appropriate item(s)) It is requested that an Airworthiness Certificate be issued to permit operation of the above described aircraft in the following classification(s): A. <input checked="" type="checkbox"/> STANDARD (NORMAL, UTILITY, ACROBATIC, OR AEROBIC) CATEGORIES) (REF. CAR 1) B. <input type="checkbox"/> LIMITED (REF. CAR 9) C. <input type="checkbox"/> RESTRICTED (REF. CAR 8) (Check operation(s) to be conducted) (1) <input type="checkbox"/> AGRICULTURAL AND PEST CONTROL (4) <input type="checkbox"/> PATROLLING (2) <input type="checkbox"/> AERIAL ADVERTISING (5) <input type="checkbox"/> FOREST AND WILDLIFE CONSERVATION (3) <input type="checkbox"/> AERIAL SURVEYING (6) <input type="checkbox"/> WEATHER CONTROL (7) <input type="checkbox"/> OTHER _____ (Specify) D. <input type="checkbox"/> EXPERIMENTAL (REF. CAR 1) (Check operation(s) to be conducted) (1) <input type="checkbox"/> AMATEUR-BUILT (3) <input type="checkbox"/> EXHIBITION (2) <input type="checkbox"/> EXPERIMENT (RESEARCH AND DEVELOPMENT) (4) <input type="checkbox"/> RACING (5) <input type="checkbox"/> TO SHOW COMPLIANCE WITH CAR _____ E. <input type="checkbox"/> (OTHER) _____ (Specify)	
	3. HAS THE APPLICANT PREVIOUSLY BEEN DENIED AN AIRWORTHINESS CERTIFICATE FOR THIS AIRCRAFT? <input type="checkbox"/> YES (Explain) <input checked="" type="checkbox"/> NO	
PART III INSPECTION AGENCY VERIFICATION (Not applicable to newly manufactured aircraft)	1. IN ACCORDANCE WITH CAR 1.67(d) THE AIRCRAFT DESCRIBED ABOVE HAS BEEN INSPECTED AND FOUND AIRWORTHY BY: A. <input type="checkbox"/> AIRCRAFT MANUFACTURER (Name of Firm) _____ B. <input type="checkbox"/> CERTIFICATED DOMESTIC REPAIR STATION, CERTIFICATE NO. _____ C. <input type="checkbox"/> CERTIFICATED AIR CARRIER, CERTIFICATE NO. _____ D. <input type="checkbox"/> CERTIFICATED MECHANIC (Inspection Authorization) NO. _____	
	DATE _____	SIGNATURE OF AUTHORIZED INDIVIDUAL _____ TITLE _____
PART IV OWNER'S CERTIFICATION	I hereby certify that the aircraft described above has been inspected and is airworthy and eligible for the classification(s) requested. I further certify that I am the registered owner (or his agent) of this aircraft which is registered* with the Federal Aviation Agency, as required by the Federal Aviation Act of 1958 and the applicable Federal Aviation Regulations and Regulations of the Administrator and that the following evidence of registration is displayed in the aircraft. (Check and complete appropriate item(s); this includes completion of items 1 and 2 on the reverse side of this form.)	
	1. <input type="checkbox"/> CERTIFICATE OF REGISTRATION, FAA FORM 500 (PART A) DATE OF ISSUE _____	
	2. <input type="checkbox"/> APPLICATION FOR REGISTRATION, FAA FORM 500 (PART B). FAA FORM 500 FORWARDED TO FAA AIRCRAFT REGISTRATION BRANCH ON (Date) _____	
3. <input checked="" type="checkbox"/> DEALER'S AIRCRAFT REGISTRATION CERTIFICATE, FAA FORM 1707 (Expiration date) October 1, 1964		
4. REGISTERED OWNER'S FULL NAME AND PERMANENT MAILING ADDRESS (No., Street, City, Zone and State) Piper Aircraft Corporation Lock Haven, Penna.		
*In order to be eligible for registration an aircraft must be owned by a citizen of the United States as defined by Section 101(13) of the Federal Aviation Act of 1958.		
5. SIGNATURE OF REGISTERED OWNER OR AUTHORIZED AGENT <i>Virginia H. Hargisville</i>		
6. DATE 1/17/64		
7. TITLE Supv. - Order & Del. Dept.		
8. ATTACHMENTS (Check which). A. <input type="checkbox"/> FAA FORM 337 C. <input type="checkbox"/> WEIGHT AND BALANCE REPORT E. <input type="checkbox"/> OTHER (List separately) B. <input type="checkbox"/> FAA FORM 317 D. <input type="checkbox"/> DATA, DRAWINGS, PHOTOGRAPHS, ETC. (List separately)		

FEDERAL AVIATION AGENCY
AIRCRAFT INSPECTION REPORT

(Items 1 and 2 will be verified and all other applicable items will be completed by an authorized FAA representative.)

1. AIRCRAFT CERTIFICATION BASIS

The aircraft described in PART I on the reverse of this form has been inspected and found to conform to the following:

- A. AIRCRAFT SPECIFICATION OR TYPE CERTIFICATE DATA SHEET NO. A1EA REVISION NO. -
- B. AIRCRAFT LISTING, PAGE NO.(S) _____
- C. AIRWORTHINESS DIRECTIVE SUMMARY 1964 (YEAR) THROUGH CARD NO. 64-1
- D. SUPPLEMENTAL TYPE CERTIFICATE NO.(S) _____
- E. OTHER _____
(Specify)

2. AIRCRAFT AND ENGINE OPERATING RECORDS

- A. AIRCRAFT NEW—NO PREVIOUS OPERATION OR MAINTENANCE HISTORY
- B. COMPLIANCE WITH APPLICABLE AIRWORTHINESS DIRECTIVES RECORDED
- C. AIRCRAFT RECORDS INDICATE THE AIRFRAME HAS BEEN OPERATED A TOTAL OF _____ HOURS
- D. ENGINE RECORDS INDICATE THE FOLLOWING OPERATION:

SERIAL NO. <u>Lt. L-623-55</u>	TOTAL HOURS <u>NA</u>	TIME SINCE OVERHAUL _____
SERIAL NO. <u>Rt. L-619-55</u>	TOTAL HOURS <u>NA</u>	TIME SINCE OVERHAUL _____
SERIAL NO. _____	TOTAL HOURS _____	TIME SINCE OVERHAUL _____
SERIAL NO. _____	TOTAL HOURS _____	TIME SINCE OVERHAUL _____

3. AIRWORTHINESS DOCUMENTATION

- A. CURRENT OPERATING RESTRICTIONS (LIMITATIONS), COPY ATTACHED
 - B. CURRENT OPERATING RESTRICTIONS (LIMITATIONS), AVAILABLE IN AIRCRAFT
 - C. CURRENT APPROVED AIRCRAFT FLIGHT MANUAL, AVAILABLE IN AIRCRAFT
 - D. CURRENT WEIGHT AND BALANCE INFORMATION, AVAILABLE IN AIRCRAFT
 - E. THIS INSPECTION HAS BEEN RECORDED IN THE AIRCRAFT RECORDS
 - F. FAA FORM 337, MAJOR REPAIR AND ALTERATION, (ATTACH WHEN REQUIRED)
 - G. FAA FORM 317, STATEMENT OF CONFORMITY, (ATTACH WHEN REQUIRED)
 - H. WEIGHT AND BALANCE REPORT, (ATTACH WHEN REQUIRED)
 - I. DATA, DRAWINGS, PHOTOGRAPHS, ETC., (ATTACH WHEN REQUIRED)
 - J. AIRWORTHINESS CERTIFICATE, FAA FORM 1362, ISSUED IN ACCORDANCE WITH CAR 1.67 (a)
 - K. PREVIOUS FAA FORM 1362, ISSUED IN ACCORDANCE WITH CAR _____
- BY _____ (Name of Issuing Representative) _____ (Designation Number)

4. FAA REPRESENTATIVE CERTIFICATION

I have inspected the aircraft described on the reverse and, on the basis of the application and the foregoing, find it conforms to its type certificate and that it is in condition for safe operation.

- 5. REGISTRATION INDICATED ON REVERSE IS PROPERLY DISPLAYED IN AIRCRAFT YES NO (Explain)

Current Form FAA-1707

6. DESIGNEE'S SIGNATURE <u>J. W. McNary</u> J. W. McNary, Asst. Chief Engineer	DESIGNATION NO. <u>DMCR 1-1 EASTERN REGION</u>	DATE <u>1-17-64</u>
7. FAA INSPECTOR'S SIGNATURE <u>John W. Leucht</u>	FAA DISTRICT OFFICE NO. <u>EMDO No. 44</u>	DATE <u>1-24-64</u>
8. REMARKS		A. <input checked="" type="checkbox"/> ACCEPTED B. <input type="checkbox"/> REINSPECTED C. <input type="checkbox"/> SPOT CHECKED

9. ATTACHMENT(S) IN ADDITION TO THOSE LISTED ON REVERSE (List separately)

1 copy of Form FAA-1362B



UNITED STATES OF AMERICA FEDERAL AVIATION AGENCY		
CERTIFICATE OF AIRWORTHINESS		
1. NATIONALITY AND REGISTRATION MARKS N7230Y	2. AIRCRAFT AIRWORTHINESS CLASSIFICATION STANDARD - NORMAL	
3. This Certificate of Airworthiness is issued pursuant to the Federal Aviation Act of 1958. The aircraft identified hereon is considered airworthy when maintained and operated in accordance with the Civil Air Regulations and applicable aircraft Operation Limitations. Issued under the provision of Part 410.		
4. This Certificate will remain in effect as long as the aircraft is maintained in accordance with Part 43 of the Civil Air Regulations unless surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Agency.		
5. DATE OF ISSUANCE 1-17-84	6. ISSUED BY J. W. McVary, Asst. Chief Eng. Piper Aircraft Corporation	7. DESIGNATION NO. EMCR 1-2
8. Any alteration or misuse of this Certificate is punishable by a fine of not exceeding \$1,000 or imprisonment not exceeding 3 years, or both.		

FAA AIRCRAFT REGISTRY
CAMERA NO. / DATE: 9-10-86

MICRO

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MAR 19 1974

Form Approved
 Budget Bureau No. 04-R060.1
 FOR FAA USE ONLY
 OFFICE IDENTIFICATION
 Cincinnati, Ohio

DEPARTMENT OF TRANSPORTATION
 FEDERAL AVIATION ADMINISTRATION
MAJOR REPAIR AND ALTERATION
 (Airframe, Powerplant, Propeller, or Appliance)

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Piper	MODEL PA-30
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK N7230Y
2. OWNER	NAME (As shown on registration certificate) Roberts Enterprises Inc.	ADDRESS (As shown on registration certificate) 2129 Sheffield Dr. Bellbrook, Ohio 45305

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS Nelson N Hall 821 Medway Carlisle Rd. New Carlisle, Ohio 45344	B. KIND OF AGENCY		C. CERTIFICATE NO. A&P 1284887
	<input checked="" type="checkbox"/>	U.S. CERTIFICATED MECHANIC	
	<input type="checkbox"/>	FOREIGN CERTIFICATED MECHANIC	
	<input type="checkbox"/>	CERTIFICATED REPAIR STATION	
MANUFACTURER			

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE March 15, 1974	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>John J. Hall</i>
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Administration and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION		CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 15 MARCH 1974	CERTIFICATE OR DESIGNATION NO. 76367-40 IA	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Robert W. Markham</i>			

FES

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

1 MAY 72

Form Approved
Budget Bureau No. 04-R060.1
FOR FAA USE ONLY
OFFICE IDENTIFICATION
GL-GAD0-5
Cincinnati, Ohio

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE PIPER	MODEL PA-30
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK B7230Y
2. OWNER	NAME (As shown on registration certificate) H&R FLYING SERVICES INC.	ADDRESS (As shown on registration certificate) BOX 385 MEDWAY, OHIO 45341

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				X
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS NELSON N HALL 821 MEDWAY CARLISLE RD. NEW CARLISLE, OHIO 45344	B. KIND OF AGENCY <input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. A&P 1284887
--	--	-----------------------------------

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE APRIL 16, 1972	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Nelson N Hall</i>
------------------------	--

7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	<input checked="" type="checkbox"/> INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION 16 APRIL 1972	CERTIFICATE OR DESIGNATION NO. 16367-401A	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Robert W. Markland</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

INSTALLED AIR FLOW MODIFICATION KIT NO. 760409 IN ACCORDANCE WITH PIPER KIT INSTALLATION INSTRUCTIONS.

	WT.	ARM	MOMENT
A/C EMPTY WT.	2328.9	83.62	194756.5
AIR FLOW KIT	2.3	123.00	282.9
NEW EMPTY WT.	2331.2	83.66	195039.4

NEW A/C EMPTY WT. 2331.2 LBS.
 NEW EMPTY WT. C.G. 83.66 IN. AFT OF DATUM
 NEW USEFUL LOAD 1268.8 LBS.

----- END -----

ADDITIONAL SHEETS ARE ATTACHED

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
Budget Bureau No. 04-R060.1
FOR FAA USE ONLY
OFFICE IDENTIFICATION CMH GAD
114-07

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Piper	MODEL PA 30
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK N7230Y
2. OWNER	NAME (As shown on registration certificate) H & R Flying Services, Inc.	ADDRESS (As shown on registration certificate) Box 385 Midway, Ohio 45341

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS Wesley Hines ElectroSonics Division 4885 Sawyer Road Columbus, Ohio 43219	B. KIND OF AGENCY <input checked="" type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER	C. CERTIFICATE NO. A & P 1246028
--	--	--

D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE November 25, 1969	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Wesley Hines</i>
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER <input checked="" type="checkbox"/>	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION November 25, 1969	CERTIFICATE OR DESIGNATION NO. A & P 1246028	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Wesley Hines</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. Identify with aircraft nationality and registration mark and date work completed.)

Installed IVI Master Strobe Unit and IVI-3R Remote Wing Fixture System as supplemental aircraft lighting as follows:

1. Installed IVI Master Unit at Station 118.0 on bottom of aircraft fuselage using factory supplied mounting ring.
2. Installed IVI-3R wing fixtures on top of aircraft wings in accordance with manufactures recommendations.
3. An electrical load analysis was performed on this aircraft and found to be within aircraft specifications.
4. Placards provided by the manufacturer and required by A.C. 43.13-2 were installed.
5. All work performed in accordance with A.C. 43.13-2 Chapter 4 and A.C. 43.13-1 Chapter 11.
6. Moment 194756.5 = New Empty Weight CG 83.62 New Useful Load 1271.1
Weight 2328.9

END

ADDITIONAL SHEETS ARE ATTACHED

W.O. # 18778

FEDERAL AVIATION AGENCY
MAJOR REPAIR AND ALTERATION
(Airframe, Powerplant, Propeller, or Appliance)

Form Approved
Budget Bureau No. 04-R060.1
FOR FAA USE ONLY
OFFICE IDENTIFICATION CODE GADG
1-4-07

INSTRUCTIONS: Print or type all entries. See FAR 43.9, FAR 43 Appendix B, and AC 43.9-1 (or subsequent revision thereof) for instructions and disposition of this form.

1. AIRCRAFT	MAKE Piper	MODEL PA 30
	SERIAL NO. 30-254	NATIONALITY AND REGISTRATION MARK N7230Y
2. OWNER	NAME (As shown on registration certificate) H & R Flying Services, Inc.	ADDRESS (As shown on registration certificate) P.O. Box 385 Midway, Ohio 45341

3. FOR FAA USE ONLY

4. UNIT IDENTIFICATION				5. TYPE	
UNIT	MAKE	MODEL	SERIAL NO.	REPAIR	ALTERATION
AIRFRAME	***** (As described in item 1 above) *****				XXX
POWERPLANT					
PROPELLER					
APPLIANCE	TYPE				
	MANUFACTURER				

6. CONFORMITY STATEMENT

A. AGENCY'S NAME AND ADDRESS ElectroSonics Division 4885 Sawyer Road Port Columbus International Airport Columbus, Ohio		B. KIND OF AGENCY <input type="checkbox"/> U.S. CERTIFICATED MECHANIC <input type="checkbox"/> FOREIGN CERTIFICATED MECHANIC <input checked="" type="checkbox"/> CERTIFICATED REPAIR STATION <input type="checkbox"/> MANUFACTURER		C. CERTIFICATE NO. Repair Station 1009 Radio Class 1, 2 and 3 Limited Instruments Limited
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D. I certify that the repair and/or alteration made to the unit(s) identified in item 4 above and described on the reverse or attachments hereto have been made in accordance with the requirements of Part 43 of the U.S. Federal Aviation Regulations and that the information furnished herein is true and correct to the best of my knowledge.

DATE November 25, 1969	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Wesley S. Jones</i>
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7. APPROVAL FOR RETURN TO SERVICE

Pursuant to the authority given persons specified below, the unit identified in item 4 was inspected in the manner prescribed by the Administrator of the Federal Aviation Agency and is APPROVED REJECTED

BY	FAA FLT. STANDARDS INSPECTOR	MANUFACTURER	INSPECTION AUTHORIZATION	OTHER (Specify)
	FAA DESIGNEE	<input checked="" type="checkbox"/> REPAIR STATION	CANADIAN DEPARTMENT OF TRANSPORT INSPECTOR OF AIRCRAFT	
DATE OF APPROVAL OR REJECTION November 25, 1969	CERTIFICATE OR DESIGNATION NO. # 1009	SIGNATURE OF AUTHORIZED INDIVIDUAL <i>Wesley S. Jones</i>		

NOTICE

Weight and balance or operating limitation changes shall be entered in the appropriate aircraft record. An alteration must be compatible with all previous alterations to assure continued conformity with the applicable airworthiness requirements.

8. DESCRIPTION OF WORK ACCOMPLISHED (If more space is required, attach additional sheets. - Identify with aircraft nationality and registration mark and date work completed.)

1. Installed Narco UDI-4 DME in vacant space in left side of instrument panel in accordance with A.C. 43.13-2, Chapter 2.
2. Installed Narco UDA-3 Antenna on bottom of aircraft fuselage at station 85.0 in accordance with A.C. 43.13-2 Chapter 3.
3. All fuses, circuit breakers, wiring and method of installation in accordance with A.C. 43.13-1, Chapter 11.
4. Operational check completed per EA 8310.7.
5. Moment 194756.5 = New Empty Weight 83.62 New Useful Load 1271.1
Weight 2328.9

END

ADDITIONAL SHEETS ARE ATTACHED